

Controller for switched reluctance motor

Patent Number: ☐ US5589752
Publication date: 1996-12-31
Inventor(s): IWASAKI SHINICHIRO (JP); SUGIYAMA MASANORI (JP); UMEMURA CHIAKI (JP);
OOKAWA AKEMI (JP); TAKAHASHI HISAYOSHI (JP)
Applicant(s): AISIN SEIKI (JP)
Requested
Patent: ☐ JP7298669
Application
Number: US19950428367 19950425
Priority Number
(s): JP19940086769 19940425
IPC
Classification: H02P5/05
EC Classification: H02P5/05
Equivalents: JP3268573B2

Abstract

The generation of oscillations and acoustic noises which result from a rapid change in the magnetic flux upon switching the energization is suppressed, while simultaneously preventing a reduction in the driving efficiency and preventing a resonance from occurring. The current waveform as the current rises or falls is switched in accordance with the rotational speed of the SR motor to minimize a change in the magnetic flux, thus suppressing a reduction in the driving torque. A time interval required for the current to rise or fall is chosen to be greater than one-half the period of the natural frequency of SR motor.

Data supplied from the esp@cenet database - I2